

Spatial Data Clean-Up and Organization for the Lostwood Complex :Progress Report

FY14

PROJECT DESCRIPTION

The purpose of this project is to clean up and organize spatial data in the Lostwood NWR Complex to include the Crosby WMD, Lostwood NWR/WMD and Des Lacs NWR offices. Over 714,000 files (1.872 TB) are stored on office servers combined.

OBJECTIVES AND ALTERNATIVES

Objective 1: Develop data structure and make recommendations on organizing GIS & RLGIS spatial data on servers in the Lostwood NWR & WMD, Crosby WMD and Des Lacs NWR offices.

SCOPE OF WORK

The contractor shall: create backups of all data that resides on the three servers; develop recommendations for overall file structure for each station; generate a complete list of files and document all file attributes using the Records Management Template (see pg. 2) for each station; demonstrate an accuracy assessment on a subset of files for each station; document all files that have the same name and provide a file attribute comparison for all duplicates.

CONTRACT DELIVERABLES

Contractor is to: develop recommendations for overall file structure for each station; develop field station-specific spreadsheet to document attribute analysis of existing files for each field station; demonstrate an accuracy assessment on a subset of files for each field station; and develop and submit a summary report to include methods used, results and overall recommendations for data management.

SOURCES OF SUPPORT

The majority of the funding for this project (\$15,660) was covered with Inventory & Monitoring funds; the remaining \$290 was covered with station funds.

CURRENT STATUS

The project was put out for bid and awarded to John Davis on 8/19/14. Period of performance for this contract is 9/02/14 to 12/01/15.

Project is ongoing. Contractor has developed two data models, is currently analyzing data on the Crosby server and has been in regular contact with Complex Biologist and Inventory & Monitoring Database Manager Jennifer Zorn.

The next step of this project (FY15) will be to hire/contract someone to reorganize data on the three servers based on recommendations.

CHALLENGES

One challenge associated with this project was developing an appropriate scope of work for this type of work.

MORE INFORMATION

Please contact Laurie Richardson, Wildlife Biologist, Lostwood Complex, 701-848-2722 ext 17 (Laurie_Richardson@fws.gov).

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File Attributes to include in Records Management Template

Creation Date: Date file was created

Date Modified: Date file was last modified

File Name: Name of the file

File Path: Specific location of the file

Data Type: shapefile (point, line, poly), .mxd, Excel, Access, .pdf

File Size: Specific size of each file

Field/Column Names: List of field or column names in geospatial or tabular file types

Number of Records: List the number of records in geospatial or tabular file types

Spatial Projection: List projection of each spatial layer

Recommended Final Destination based on recommended file structure

Records Management Template Example

Station: _____

Creation Date	Date Modified	File Name	File Path	Data Type	File Size	# Records	Field or column names	Spatial Projection	Recommended Final Destination
5/10/14	5/15/14	VegTransects.shp	G:\Lostwood WMD\GIS Shapefiles\VegTransects.shp	Line shapefile	586kb	325	TransectID Date Mgmt Unit	Transverse_Mercator	"G:\RLGIS\Databases\RLGIS V2\FeaturesUnitsMonitoring.gdb"
5/10/14	5/15/14	Leafyspurge.xls	G:\Lostwood WMD\GIS Shapefiles\leafyspurge.xls	Excel	27kb	600	TransectID Date	NA	"G:\DataManagementProject\Undetermined"
5/11/14	5/15/14	Spurge.mdb	Z:\Biology\Vegetation_Monitoring\Transects1\Spurge.mdb	Access database	325kb	900	Location Density Biocontrol	NA	"G:\DataManagementProject\Delete"